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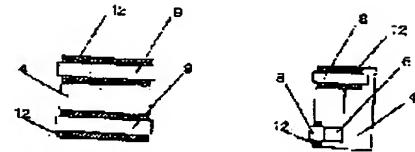
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## (54) SURFACE-MOUNTING INDUCTOR

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To reduce the number of manufacturing steps and improve reliability by easily forming a closed magnetic loop type coil having a large current capacity, eliminating the complicated sealing work due to the resin injection, and simplifying a case molding process without the use of a lead terminal embedding case and also eliminating the process to connect a coil terminal to a lead terminal of the case using solder.

**SOLUTION:** A closed magnetic path core is formed by embedding a coil that is formed by winding an insulator-covered flat angular wire around the recessed portions of a couple of magnetic cores, formed of a ferrite material with inclusion of an annular recessed portion at the center and a terminal guiding groove 6 at the side wall. Next, the insulator cover of coil terminal portion is removed and is soldered. Thereafter, a substrate mounting terminal 9 is formed, by continuously folding the wire at the bottom surface of the external circumference portion and two side surfaces.



## LEGAL STATUS

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